## (12) INTERNATIONAL PATENT APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Organization for Intellectual Property International Office



(43) International Publication Date: June 10, 2004 (6/10/2004) **PCT** 

(10) International Publication Number: WO 2004/049359 A1

[continued on next page]

| (51) | International Patent Classification 7:              | (72)      | Inventor; and  |  |
|------|---|-----------|--|--|
| ` .  | H01F 1/057  | (75)      | Inventor/Applicant (only for the United States): Georg REPPEL, Werner [Germany/ Germany],                                    |  |
| (21) | International Application No.:<br>PCT/EP2003/013383 |           | Goldbergstrasse 4, 63546 Hammersbach (Germany).  |  |
|      | 101/112003/013303                                   | (74)      | Attorney: Bernhard SCHMUCKERMAIER,   |  |
| (22) | International Filing Date:                          |           | Westphal, Mussgnug & Partners, Mozartstrasse 8,  |  |
|      | November 27, 2003 (11/27/ 2003)                     |           | 80336 Munich (Germany).  |  |
| (25) | Language of Patent Submission: German               | (81)      | Contracting nations (national): JP, US.  |  |
| (26) | Language of Patent Publication:                     | Published |  |  |
|      | German  |           | <ul> <li>with the International Search Report</li> <li>before expiration of the period allowed for changes in the</li> </ul> |  |
| (30) | Priority Information: 102 55 604.0                  |           | claims; publication to be repeated if changes are made   |  |
| (30) | November 28, 2002 (11/28/2002)                      | ,         | cums, publication to be repeated y changes are made  |  |
|      | Germany   |           |  |  |
| (71) | Applicant (for all contracting nations except the   |           |  |  |
|      | United States): Vacuumschmelze GmbH & Co.,          |           |  |  |
|      | KG [Vacuum Melt Co.] [Germany/Germany].             |           |  |  |

(54) Title: METHOD FOR THE PRODUCTION OF AN ANISOTROPIC MAGNETIC POWDER AND A BONDED ANISOTROPIC MAGNET PRODUCED THEREFROM

[see Figure 1 at end of text]

Grüner Weg 37, 63450 Hanau (Germany).

(57) Abstract: The invention relates to a method for the production of an anisotropic magnetic powder or a magnet produced from said powder, wherein a hydrogenating and dehydrogenating method is applied to the starting material in order to produce the powder. An anisotropic oriented magnetic material, more particularly magnetic scrap metal is advantageously used as starting material so that the complicated use of a molten mass with isotropic distribution of the c axes of the hard metal crystals

is not required.

## 

For explanation of the two-letter code and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.